



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit | Ag Da |
|----------|-----------|--------------|--------|--------|-----------------------|---|-------------|---------|--------------|-----------|-----------|-------------------|-------------------|-----------|--------|--------------|--------------|-------|
| PO038785 | ACI001-VC | 1 | 1 | Net 30 | MT-A513-T-1.000W0.128 | A513 Seamless Alloy Steel Round Tubing 1" dia. x 0.120" Wall | | | | 100 | 1/17/2018 | 100 | | S033394 | Stock | 1/18/2018 | \$ 2.21 / ft | |
| | | 2 | | | MT-A513-T-0.875W0.128 | A513 Seamless Alloy Steel Round Tubing 0.875" dia. x 0.120" Wall | | | | 60 | | 60 | | S033395 | Stock | 1/18/2018 | \$ 2.06 / ft | |
| | | 3 | | | M1018R1.250 | 1018 Round Bar 1.250 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 | | | | 20 | | 20 | | S033396 | Stock | 1/18/2018 | \$ 4.17 / ft | |
| | | 4 | | | M304R0.750 | 304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft | | | | 96 | | 96 | | S033397 | Stock | 1/18/2018 | \$ 4.30 / ft | |
| | | 5 | | | MT-4140QT-R0.750 | AISI 4140 Quenched & Tempered Steel Round Bar 0.750" Dia. | | | | 20 | | 20 | | S033398 | Stock | 1/18/2018 | \$ 2.49 / ft | |
| | | 6 | | | M6061T6B0.250X01.000 | 6061-T6 Bar .250 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 20 | | S033399 | Stock | 1/18/2018 | \$ 0.79 / ft | |
| | | 7 | | | M6061T6B0.250X5.000 | 6061T6 Bar 0.250 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 20 | | S033400 | Stock | 1/18/2018 | \$ 3.76 / ft | |
| | | 8 | | | M6061T6B0.250X6.250 | 6061T6 Bar 0.250 X 6.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 24 | | 24 | | S033401 | Stock | 1/18/2018 | \$ 9.62 / ft | |
| | | 9 | | | M6061T6B0.375X02.000 | 6061-T6 Bar .375 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 40 | | 40 | | S033402 | Stock | 1/18/2018 | \$ 2.30 / ft | |
| | | 10 | | | M6061T6B0.500X02.500 | 6061-T6 Bar .500 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | | S033403 | Stock | 1/18/2018 | \$ 3.76 / ft | |

waiting for next #
Plate Bar

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit | Ag Da |
|--------|----------|--------------|--------|-------|----------------------|--|-------------|---------|--------------|-----------|----------|-------------------|-------------------|-----------|--------|--------------|---------------|-------|
| 038785 | | 11 | | | M6061T6B0.500X06.000 | 6061-T6 Bar .500 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 40 | | 40 | | S033404 | Stock | 1/18/2018 | \$ 9.17 / ft | |
| | | 12 | | | M6061T6B0.500X1.500 | 6061T6 Bar 0.500 X 1.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | | S033405 | Stock | 1/18/2018 | \$ 2.30 / ft | |
| | | 13 | | | M6061T6B0.500X12.000 | 6061-T6 Bar .500 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 12 | | 12 | | S033406 | Stock | 1/18/2018 | \$ 23.01 / ft | |
| | | 14 | | | M6061T6B1.000X04.000 | 6061-T6 Bar 1.00 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 12 | | S033407 | Stock | 1/18/2018 | \$ 12.77 / ft | |
| | | 15 | | | M6061T6B1.000X12.000 | 6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 12 | | S033408 | Stock | 1/18/2018 | \$ 44.59 / ft | |
| | | 16 | | | M6061T6B1.250X01.250 | 6061-T6 Bar 1.25 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | | S033409 | Stock | 1/18/2018 | \$ 4.89 / ft | |
| | | 17 | | | M6061T6B2.500X01.500 | 6061-T6 Bar 2.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 24 | | 24 | | S033410 | Stock | 1/18/2018 | \$ 14.36 / ft | |
| | | 18 | | | M6061T6B0.375X01.000 | 6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 60 | | 60 | | S033411 | Stock | 1/18/2018 | \$ 1.15 / ft | |

? 1.250
waiting for Astm

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit | Ag Da |
|--------|----------|--------------|--------|-------|----------------------|---|-------------|---------|--------------|-----------|----------|-------------------|-------------------|-----------|--------|--------------|---------------|-------|
| | | 19 | | | M6061T6B0.750X03.000 | 6061-T6 Bar .750 X 3.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | ✓ | S033412 | Stock | 1/18/2018 | \$ 8.37 / ft | |
| | | 20 | | | M6061T6B1.500X01.500 | 6061-T6 Bar 1.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 20 | ✓ | S033413 | Stock | 1/18/2018 | \$ 6.78 / ft | |
| | | 21 | | | M6061T6B3.000X01.500 | 6061-T6 Bar 3.00 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 12 | | 12 | ✓ | S033414 | Stock | 1/18/2018 | \$ 14.02 / ft | |
| Total: | | | | | | | | | | 672 | | 672 | | | | | | |

Plex 1/18/2018 12:50 PM Dan.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038785

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038785

PO Date: 1/15/18

Due Date: 1/17/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
JAN 18 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: quotation sou0079984

| Items | | | | | | | | | | |
|-----------|-------------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 1 | MT-A513-T-1.000W0.120 ✓ | | A513 Seamless Alloy Steel Round Tubing 1"dia. x 0.120" Wall | Firmed | 1/17/18 | 100 ft | 0 ft | 100 ft | \$2.2095/ft | \$220.95 |
| 2 | MT-A513-T-0.875W0.120 ✓ | | A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120" Wall | Firmed | 1/17/18 | 60 ft | 0 ft | 60 ft | \$2.0595/ft | \$123.57 |
| 3 | M1018R1.250 ✓ | | 1018 Round Bar 1.250 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$4.168/ft | \$83.36 |
| 4 | M304RO.750 ✓ | | 304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft | Firmed | 1/17/18 | 96 ft | 0 ft | 96 ft | \$4.295/ft | \$412.32 |
| 5 | MT-4140QT-R0.750 ✓ | | AISI 4140 Quenched & Tempered Steel Round Bar 0.750" Dia. | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$2.4925/ft | \$49.85 |
| 6 | M6061T6B0.250X01.000 ✓ | | 6061-T6 Bar .250 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$0.7935/ft | \$15.87 |
| | | | | | | | DAS 11 9-89 | | | |

PURCHASE ORDER

| Items | | | | | | | | | | |
|-----------|----------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 7 | M6061T6B0.250X5.000 | | 6061T6 Bar 0.250 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft 20 | 20 ft | \$3.7625/ft | \$75.25 |
| 8 | M6061T6B0.250X6.250 | | 6061T6 Bar 0.250 X 6.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 24 ft | 0 ft 24 | 24 ft | \$9.61625/ft | \$230.79 |
| 9 | M6061T6B0.375X02.000 | | 6061-T6 Bar .375 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 40 ft | 0 ft 40 | 40 ft | \$2.3035/ft | \$92.14 |
| 10 | M6061T6B0.500X02.500 | | 6061-T6 Bar .500 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft 20 | 20 ft | \$3.7625/ft | \$75.25 |
| 11 | M6061T6B0.500X06.000 | | 6061-T6 Bar .500 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 40 ft | 0 ft 40 | 40 ft | \$9.17375/ft | \$366.95 |

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11
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| Items | | | | | | | | | | |
|-----------|----------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 12 | M6061T6B0.500X1.500 | | 6061T6 Bar 0.500 X 1.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft 20 | 20 ft | \$2.3035/ft | \$46.07 |
| 13 | M6061T6B0.500X12.000 | | 6061-T6 Bar .500 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft 12 | 12 ft | \$23.005833/ft | \$276.07 |
| 14 | M6061T6B1.000X04.000 | | 6061-T6 Bar 1.00 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft 12 | 12 ft | \$12.765833/ft | \$153.19 |
| 15 | M6061T6B1.000X12.000 | | 6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft 12 | 12 ft | \$44.58666/ft | \$535.04 |
| 16 | M6061T6B1.250X01.250 | | 6061-T6 Bar 1.25 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft 20 | 20 ft | \$4.8855/ft | \$97.71 |

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11
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PURCHASE ORDER

| Items | | | | | | | | | | |
|--------------|----------------------|------------------|---|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 17 | M6061T6B2.500X01.500 | | 6061-T6 Bar 2.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 24 ft | 0 ft | 24 ft | \$14.36125/ft | \$344.67 |
| 18 | M6061T6B0.375X01.000 | | 6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 60 ft | 0 ft | 60 ft | \$1.1518333/ft | \$69.11 |
| 19 | M6061T6B0.750X03.000 | | 6061-T6 Bar .750 X 3.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$8.3725/ft | \$167.45 |
| 20 | M6061T6B1.500X01.500 | | 6061-T6 Bar 1.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$6.775/ft | \$135.50 |
| 21 | M6061T6B3.000X01.500 | | 6061-T6 Bar 3.00 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft | 12 ft | \$14.020833/ft | \$168.25 |
| Grand Total: | | | | | | | | | \$3,739.36 | |

Order Notes

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11
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Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/16/18 7:50 AM dart.lavoie.chantal



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2018/01/11

Revision N 

0

Prices valid until

2018/01/18

Your Order N 

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

| Product N  and description | Weight | Qty | U/M | Qty | U/M | Price | Pcs Nb | Price | Amount |
|---|--------|--------|----------|--------|---------|-------|--------|---------|--------|
| TUBE MEC 1.000 OD X .120 RANDOM TME-1000120-V 6505 5 X 20' R/L STOCK | 112.80 | 100.00 | PI_\$CPI | 100.00 | PI | | 5.00 | 44.190 | 220.95 |
| TUBE MEC 0.875 OD X .120 RANDOM TME-0875120-V 6787 3 X 20' R/L STOCK | 58.08 | 60.00 | PI_\$CPI | 60.00 | PI | | 3.00 | 41.190 | 123.57 |
| ROUND CR 1 1/4 1018 RANDOM RCR-114-V 5260 1 X 20' R/L STOCK | 83.40 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 83.360 | 83.36 |
| ROUND SS 1 303 RANDOM RSS-1303-V 8519 4 X 12' R/L 2-3 DAYS | 128.16 | 48.00 | PI_\$CLB | 48.00 | UN_\$UN | | 4.00 | 96.745 | 386.98 |
| ROUND SS 3/4 304 RANDOM RSS-34-V 5762 8 X 12' R/L STOCK | 144.19 | 96.00 | PI_\$CLB | 96.00 | PI | | 4.00 | 103.080 | 412.32 |
| ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 20' R/L STOCK | 30.04 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 49.850 | 49.85 |
| FLAT 4140 HT 1/2 X 3 N 1 X 6' 4-5 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 141.000 | 141.00 |
| FLAT 4140 HT 1/2 X 4 N 1 X 6' 4-5 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 162.000 | 162.00 |
| FLAT 4140 HT 3/4 X 1 3/4 N 1 X 8' 4-5 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 188.000 | 188.00 |
| FLAT ALU 1/4 X 1 6061-T6 RANDOM FAL-141-V 2512 1 X 20' STOCK | 6.20 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 15.870 | 15.87 |

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056

Date 2018/01/11

Revision N° 0

Prices valid until 2018/01/18

Your Order N°

Processed by Josianne Bourdon

Salesman JOSIANNE

Carrier OUELLE SDV

Credit Terms Net 30 Days

Page 2

| Product N° and description | Weight | Qty U/M | Qty U/M | Price | Pcs Nb | Price | Amount |
|---|--------|----------------------------|-------------------|-------|--------|---------|--------|
| FLAT ALU 1/4 X 5 6061-T6 RANDOM FAL-145-V 2527 1 X 20' STOCK | 29.40 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 75.250 | 75.25 |
| ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245 3 X 6 1/4" X 96" STOCK SHEAR CUT SHEAR 2 | 58.56 | 16.00 PI2_\$CLB 1.00 UN | 16.00 PI2 1.00 | | 3.00 | 76.930 | 230.79 |
| FLAT ALU 3/8 X 2 6061-T6 RANDOM FAL-382-V 2617 2 X 20' STOCK | 36.00 | 40.00 PI_\$CLB | 40.00 PI | | 2.00 | 46.070 | 92.14 |
| FLAT ALU 1/2 X 1 1/4 6061-T6 RANDOM FAL-12114-V 2469 1 X 20' 2-3 DAYS | 15.70 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 40.180 | 40.18 |
| FLAT ALU 1/2 X 2 1/2 6061-T6 RANDOM FAL-12212-V 2479 1 X 20' STOCK | 29.38 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 75.200 | 75.20 |
| FLAT ALU 1/2 X 5 6061-T6 RANDOM FAL-125-V 2492 3 X 12' 3-4 DAYS | 105.88 | 36.00 PI_\$CLB | 36.00 PI | | 3.00 | 116.446 | 349.34 |
| FLAT ALU 1/2 X 6 6061-T6 RANDOM FAL-126-V 2494 2 X 20' STOCK | 141.16 | 40.00 PI_\$CLB | 40.00 PI | | 2.00 | 183.475 | 366.95 |
| FLAT ALU 1/2 X 1 1/2 6061-T6 RANDOM FAL-12112-V 2466 1 X 20' STOCK | 18.00 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 46.070 | 46.07 |
| FLAT ALU 1/2 X 12 6061-T6 RANDOM FAL-1212-V 7447 1 X 12' STOCK | 84.70 | 12.00 PI_\$CLB | 12.00 PI | | 1.00 | 276.070 | 276.07 |

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/01/11

Revision N°

0

Prices valid until

2018/01/18

Your Order N°**Processed by**

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

3

| Product N° and description | Weight | Qty | U/M | Qty | U/M | Price | Pcs Nb | Price | Amount |
|---|--------|-------|----------|-------|-----|-------|--------|---------|--------|
| FLAT AL 2 X 6 6061T6 N 1 X 6' 3-4 days | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 316.000 | 316.00 |
| FLAT ALU 1 X 4 6061-T6 RANDOM FAL-14-V 2532 1 X 12' STOCK | 57.60 | 12.00 | PI_\$CLB | 12.00 | PI | | 1.00 | 153.190 | 153.19 |
| FLAT ALU 1 X 12 6061-T6 RANDOM FAL-112-V 2450 1 X 12' STOCK | 169.34 | 12.00 | PI_\$CLB | 12.00 | PI | | 1.00 | 535.040 | 535.04 |
| SQUARE ALU 1 1/4 6061-T6 RANDOM CAL-114-V 1775 1 X 20' STOCK | 36.74 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 97.710 | 97.71 |
| FLAT ALU 1 1/2 X 2 1/2 6061-T6 RANDOM FAL-112212-V 2439 2 X 12' STOCK | 105.74 | 24.00 | PI_\$CLB | 24.00 | PI | | 2.00 | 172.335 | 344.67 |
| FLAT ALU 3/8 X 1 6061-T6 RANDOM FAL-381-V 2613 6 X 20' STOCK | 27.00 | 60.00 | PI_\$CLB | 60.00 | PI | | 3.00 | 23.036 | 69.11 |
| FLAT ALU 3/4 X 3 6061-T6 RANDOM FAL-343-V 2594 1 X 20' STOCK | 53.00 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 167.450 | 167.45 |
| FLAT ALU 1/8 X 3/4 6063-T5 RANDOM FAL-1834-V 2552 1 X 20' STOCK | 2.26 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 6.690 | 6.69 |
| SQUARE ALU 1 1/2 6061-T6 RANDOM CAL-112-V 1773 1 X 20' STOCK | 52.94 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 135.500 | 135.50 |
| FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' 3-4 DAYS | 70.56 | 24.00 | PI_\$CLB | 24.00 | PI | | 2.00 | 121.345 | 242.69 |

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2018/01/11

Revision N 

0

Prices valid until

2018/01/18

Your Order N **Processed by**

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

4

| Product N  and description | Weight | Qty | U/M | Qty | U/M | Price | Pcs Nb | Price | Amount |
|---|--------|-------|----------|-------|-----|-------|--------|---------|--------|
| FLAT ALU 2 X 2 1/2 6061T6 N 1 X 12' 2-3 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 387.000 | 387.00 |
| FLAT ALU 2 X 5 6061T6 N 1 X 12' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 495.000 | 495.00 |
| FLAT ALU 2 X 8 6061T6 N 1 X 4' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 285.000 | 285.00 |
| FLAT ALU 3 X 6 6061T6 N 1 X 6' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 465.000 | 465.00 |
| FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 12' STOCK | 63.50 | 12.00 | PI_\$CLB | 12.00 | PI | | 1.00 | 168.250 | 168.25 |
| CARRE AL. 4 1/2" 6061T6 N 1 X 6' 2-3 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 782.000 | 782.00 |
| PLAT ALU 1 1/4 X 4 1/2 6061T6 N 1 X 12' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 275.000 | 275.00 |
| PLAT ALU 2 1/2 X 4 1/2 6061T6 N 1 X 6' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 295.000 | 295.00 |
| SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE | | | \$ | | | | | | 3.95 |

Total Weight (Lbs)

1 720.33

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approved and Accepted by :

Date :

Sub-total

8 550.14

TVH-13 · 1111.52

Total (\$CAD)**9 661.66**


ACIER OUELLETTE INC.

935, Boul. du H vre
 Salaberry de Valleyfield (Qu bec) J6S 5L1
 T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation
SOU0080975
Billed to

DART AEROSPACE LTD
 1270 , ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2018/01/18
Revision N  0
Prices valid until 2018/01/25
Your Order N 
Processed by Josianne Bourdon
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

| Product N  and description | Weight | Qty | U/M | Qty | U/M | Price | Pcs Nb | Price | Amount |
|--|--------|-------|----------|-------|-----|-------|--------|--------|--------|
| TUBE CR 1 1/2 X 1 X .065 RANDOM TCR-1121065-V 6449 1 X 20' OFFER .065 THICK | 20.94 | 20.00 | PI_\$CPI | 20.00 | PI | | 1.00 | 48.000 | 48.00 |
| SURCHARGE ENERGETIQUE 2-3 DAYS FRAIS_ENERGETIQUE | | | \$ | | | | | | 3.95 |

Total Weight (Lbs) 20.94

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approved and Accepted by :

Sub-total 51.95

TVH-13 · · 6.75

Date : **Total (\$CAD)** 58.70



Order - Sales

Copy CO00069821

ACIER OUELLETTE INC.
935, Bout. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Customer N° CL10001056
Date 2018/01/15
Delivery date 2018/01/16
Your order N° 038785
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

| Product Description | Weight | Qty | U/M | PCS N° | | Internal Use Only | | | |
|--|--------|--------|----------|--------|-----|-------------------|----|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 1 TUBE MEC 1.000 OD X .120 RANDOM TME-1000120-V 6505 <i>5 X 20' R/L HEAT: 41892 AG</i> | 112.80 | 100.00 | PL_\$CPI | 5.00 | | | | | |
| 2 TUBE MEC 0.875 OD X .120 RANDOM TME-0875120-V 6787 <i>3 X 20' R/L HEAT: 41892 AG</i> | 58.08 | 60.00 | PL_\$CPI | 3.00 | | | | | |
| 3 ROUND CR 1 1/4 1018 RANDOM RCR-114-V 5260 <i>1 X 20' R/L HEAT: 41892 AG</i> | 83.40 | 20.00 | PL_\$CLB | 1.00 | | | | | |
| 4 ROUND SS 3/4 304 RANDOM RSS-34-V 5762 <i>8 X 12' R/L HEAT: 249P</i> | 144.19 | 96.00 | PL_\$CLB | 4.00 | | | | | |

NIR : R-109516-6



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO0006982

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

CL10001056

2018/01/15

2018/01/16

038785

Josianne Bourdon

Net 30 Days

2

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS NB | | Internal Use Only | | | |
|---|--------|-------|-----------|--------|-----|-------------------|----|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 5 ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 <i>1 X 20' R/L HEAT M52573</i> | 30.04 | 20.00 | PI_\$CLB | 1.00 | | | | | |
| 6 FLAT ALU 1/4 X 1 6061-T6 RANDOM FAL-141-V 2512 <i>1 X 20' HEAT SVA-160988</i> | 6.20 | 20.00 | PI_\$CLB | 1.00 | | | | | |
| 7 FLAT ALU 1/4 X 5 6061-T6 RANDOM FAL-145-V 2527 <i>1 X 20' HEAT 67915</i> | 29.40 | 20.00 | PI_\$CLB | 1.00 | | | | | |
| 8 ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245 <i>3 X 6 1/4" X 96" HEAT: Avenir</i> | 58.56 | 16.00 | PI2_\$CLB | 3.00 | | | | | |

NIR : R-109516-6

Next Page



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00069821

Customer N°

CL10001056

Date

2018/01/15

Delivery date

2018/01/16

Your order N°

038785

Processed by

Josianne Bourdon

Salesman

OUELLETTE VALLEYFIELD

Net 30 Days

Page

3

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS NB | | Internal Use Only | | | |
|--|--------|-------|----------|--------|-----|-------------------|----|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| SHEAR CUT SHEAR 2 | | 1.00 | UN | | | | | | |
| 9 FIAT ALU 3/8 X 2 6061-T6 RANDOM FAL-382-V 2617 | 36.00 | 40.00 | PI_\$CLB | 2.00 | | | | | |
| 2 X 20' HEAT: SXF171944 | | | | | | | | | |
| 10 FIAT ALU 1/2 X 2 172 6061-T6 RANDOM FAL-12212-V 2479 | 29.38 | 20.00 | PI_\$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 33083 | | | | | | | | | |
| 11 FIAT ALU 1/2 X 6 6061-T6 RANDOM FAL-126-V 2494 | 141.16 | 40.00 | PI_\$CLB | 2.00 | | | | | |
| 2 X 20' HEAT: 36629 | | | | | | | | | |
| 12 FIAT ALU 1/2 X 1 1/2 6061-T6 RANDOM FAL-12112-V 2466 | 18.00 | 20.00 | PI_\$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 68295 | | | | | | | | | |

NIR : R-109516-6

Next Page..



Order - Sales

Copy

CO00069821

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

2018/01/15

2018/01/16

038785

Josianne Bourdon

OUELLETTE VALLEYFIELD

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

4

| Product Description | Weight | Qty | U/M | PCS NB | | Internal Use Only | | | |
|---|--------|-------|----------|--------|-----|-------------------|----|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 13 FLAT ALU 1/2 X 12 6061-T6 RANDOM FAL-1212-V 7447 1 X 12' HEAT: 200108157 | 84.70 | 12.00 | PL \$CLB | 1.00 | | | | | |
| 14 FLAT ALU 1 X 4 6061-T6 RANDOM FAL-14-V 2532 | 57.60 | 12.00 | PL \$CLB | 1.00 | | | | | |
| 15 FLAT ALU 1 X 12 6061-T6 RANDOM FAL-112-V 2450 | 169.34 | 12.00 | PL \$CLB | 1.00 | | | | | |
| 16 SQUARE ALU 1 1/4 6061-T6 RANDOM CAL-114-V 1775 | 36.74 | 20.00 | PL \$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 160973418 | | | | | | | | | |

NIR : R-109515-6

Next Page..



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00069821

Customer N° CLI0001056

Date 2018/01/15

Delivery date 2018/01/16

Your order N° 038785

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 5

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS NB | | | Internal Use Only | | |
|---|--------|-------|----------|--------|-----|-----|-------------------|---|---------|
| | | | | CMD | EXP | B/O | IN | I | S C OUT |
| 17 FLAT ALU 1 1/2 X 2 1/2 6061-T6 RANDOM FAL-112212-V 2439 | 105.74 | 24.00 | PI \$CLB | 2.00 | | | | | |
| 2 X 12' HEAT: SDX170240 <i>sd</i> | | | | | | | | | |
| 18 FLAT ALU 3/8 X 1 6061-T6 RANDOM FAL-381-V 2613 | 27.00 | 60.00 | PI \$CLB | 3.00 | | | | | |
| 3 X 20' HEAT: 3B4191 | | | | | | | | | |
| 19 FLAT ALU 3/4 X 3 6061-T6 RANDOM FAL-343-V 2594 | 53.00 | 20.00 | PI \$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 36740 <i>sd</i> | | | | | | | | | |
| 20 SQUARE ALU 1 1/2 6061-T6 RANDOM CAL-112-V 1773 | 52.94 | 20.00 | PI \$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 68055 <i>sd</i> | | | | | | | | | |

NIR : R-109516-6

Next Page..



ACIER QUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5596 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy C000069821

Customer N° CL10001056
Date 2018/01/15
Delivery date 2018/01/16
Your order N° 038785
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 6

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Alt : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS N8 | | | Internal Use Only | | |
|--|--------|-------|----------|--------|-----|-----|-------------------|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 21 FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 12' HEAT 384719 SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE | 63.50 | 12.00 | PL \$CLB | 1.00 | | | | | OUT |
| | | | \$ | 0.00 | | | | | |

Total Weight (LBS) : 1 397.77 **NIR : R-109516-6**

Conditions :
All sold and delivered materials remain the property of "Acier Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the Buyer's expense. The warranty offered by "Acier Quellette Inc" is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc" to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administrative charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

| | | | | | | | |
|---------------|---------------|----------------|------|----------------------|---|---|--|
| Prepared By : | Verified By : | Delivered By : | Time | Customer's Signature | | | |
| | | | | Y | M | D | |

Total (\$CAD) 4 229.88
Deposit 0.00
Balance 4 229.88

TPI Work Test Certificate



TUBE INVESTMENTS OF INDIA
TUBE PRODUCTS OF INDIA - MODULE - 1
POST BOX NO.4 & 18, M.T.H. ROAD, AVADI, CHENNAI - 600054



Description : PRECISION STEEL TUBES - CDW
Specification : ASTM A513/A 513M-15 T5 C1020
Condition : SRA
Bundle No's : 017000842

TC No : PAE/BC1720318
Date : 10-FEB-17

Invoice No : 4421810999
Invoice Date : 31-JAN-17
Job /Batch No : RBCL1701331

Cust Part No :
Bundle Tagging : CUSTOMER SIZE /CONDITION /QUANTITY /GROSS WEIGHT /TAG MARKING / WO.NO. / SPEC & GRADE /DESTINATION / BUNDLE NO /COUNTRY OF ORIGIN.

Tube Marking : P.O.NO. /TPI-ED /SIZE /SPEC/CONDITION /TAG MARKING/ HEAT NO. /MADE IN INDIA.

P. Uom : Inches
Size : 1.000" OD X 0.760" ID X 0.120" WT X 20'-24" R/L

Quantity In : 1857.513 Ft

LADLE ANALYSIS :

| Process | Heat No. | %C | %Mn | %P | %S | %Si | %Al |
|---------|----------|-----|-----|------|------|------|------|
| Min | | .18 | .3 | | | | |
| Max | | .23 | .6 | .035 | .035 | | |
| Obs | D37954 | .19 | .49 | .008 | .005 | .023 | .054 |

Full Section Longitudinal Tensile Test at Room Temp

| Test | Heat No. | Y.S | T.S | Elong. |
|------|----------|-------|--------|--------|
| Min | | 379 | 448 | 10 |
| Max | | | | |
| | | MPA | MPA | % |
| OBS | D37954 | 480.9 | 565.76 | 22 |

Rockwell Hardness

| Hardness | OD | ID |
|----------|----|----|
| 75 | | |
| HRB | | |
| 84 | | |

Dimensions in : Inches

| Spec | OD | ID | WT | Len |
|---------|-------|------|----|---------|
| Min | 1 | .755 | | 240 |
| Max | 1.005 | .76 | | 288 |
| OBS-Min | 1.001 | .757 | 0 | 267.283 |
| OBS-Max | 1.003 | .759 | 0 | 284.016 |

Technological Tests :

| Test | Spec | Result |
|-----------------|------|--------|
| Crushing | | - |
| Flaring | | - |
| Flattening | | - |
| Flanging | | - |
| Rev. Flang. | | - |
| Elong. Gang Len | | |

Non-Destructive Tests :

| Test | Spec | Result |
|-----------------|------------------|----------------|
| Straightness | 0.76/1000 MM MAX | 0.30 / 1000 |
| Eddy Current | 100 | 100% TESTED OK |
| Visual | | DEFECT FREE |
| Ultrasonic Test | | - |

This is to certify that the goods are supplied as per the purchase order and specification Requirements

Prepared by : N. Arjun Kumar

Quality Shift Incharge Signature:

for Tube Investments of India
Unit: Tube Products of India Module - 1

Mathavan.M
Mgr-Quality-IBP-TP

123174 Item-CDW 1.000 .120 .760 Heat #-D37954

Turn 1120

6787

TPI Work Test Certificate



TUBE INVESTMENTS OF INDIA
TUBE PRODUCTS OF INDIA - MODULE - I
POST BOX NO.4 & 18, M T H ROAD, AVADI, CHENNAI - 600054



murugappa

MO4811/24-JUL-15
Description : PRECISION STEEL TUBES - CDW
Specification : ASTM A513M/13M-12 TS C1020
Condition : SRA
Bundle No's : 015010913, 015010910

TC No : PAZ/MC1580476
Date : 25-AUG-15

Invoice No : 4421809206
Invoice Date : 22-AUG-15
Job/Batch No : RBCL1508149

Cust Part No :
Bundle Tagging : CUSTOMER SIZE/CONDITION/QUANTITY/GROSS WEIGHT/TAG MARKING/WO.NO./SPEC & GRADE/DESTINATION/BUNDLE NO/COUNTRY OF ORIGIN.

Tube Marking : P.O.NO./TPI-ED/SIZE/SPEC/CONDITION/TAG MARKING/HEAT NO./MADE IN INDIA.

P, Uom : Inches
Size : 0.875" OD X 0.635" ID X 0.120" WT X 20'-24' R/L.

Quantity In : 2592.749 Ft

LADLE ANALYSIS :

| Process | Heat No. | %C | %Mn | %P | %S | %Si | %Al |
|---------|----------|-----|-----|------|------|-----|-----|
| Min | | .18 | .3 | | | | |
| Max | | .23 | .6 | .035 | .055 | | |
| Obs | D651089 | .2 | .53 | .015 | .085 | .12 | .01 |

| Full Section Longitudinal Tensile Test at Room Temp | | | | |
|---|----------|--------|-------|--------|
| Test | Heat No. | Y.S | T.S | Elong. |
| Min | | 374 | 444 | 10 |
| Max | | | | |
| | | MPA | MPA | % |
| Obs | D651089 | 512.02 | 625.1 | 20 |

| Rock Well Hardness |
|--------------------|
| 75 HRC |
| 80 HRC |

| Dimensions in : inches | | | | |
|------------------------|------|------|----|---------|
| Spec | OD | ID | WT | Length |
| Min | .875 | .63 | | 240 |
| Max | .88 | .635 | | 288 |
| Obs-Min | .876 | .634 | 0 | 240 |
| Obs-Max | .878 | .635 | 0 | 287.992 |

| Technological Tests : | | |
|-----------------------|------|--------|
| Test | Spec | Result |
| Crushing | | - |
| Flaring | | - |
| Flattening | | - |
| Flanging | | - |
| Rev. Flang. | | - |
| Elong.Gaug.Len | | - |

| Non-Destructive Tests : | | |
|-------------------------|------------------|----------------|
| Test | Spec | Result |
| Roughness OD | | - |
| Roughness ID | | - |
| Straightness | 0.76/1000 MM MAX | 0.39/1000 MM |
| Eddy Current | 100 | 100% TESTED OK |
| Vision | | DEFECT FREE |
| Ultrasonic Test | | - |

This is to certify that the goods are supplied as per the purchase order and specification Requirements.

Prepared by : K. SUNDARARAJAN

Quality Shift Incharge Signature:

for Tube Investments of India
Unit: Tube Products of India Module - I

S. C. P. S.
Mathavan, M
Mgt-Quality-IBP-TP

Q.C. Reviewed
Shiv 27/15

Turn 78120

-123174 Item-CDW .875 .120 .635 Heat # -D651089

5292
5260

RCR-TV
RCR-114-V

49553
49554 CA 47950



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

| REF. DE Pedido / Order | DESCRIPCIÓN Description | Medida Measurement | Tolerancia Tolerance | Medida Measurement | Tolerancia Tolerance |
|---------------------------|------------------------------------|-----------------------|-------------------------|-----------------------|-------------------------|
| PAR-48569 | 1018 RED. ESTIRADO 25,40 (1") | 978 | -0,051 | 137149 | 25,40 |
| MJP-48737 | 1018 RED. ESTIRADO 25,40 (1") | 998 | -0,051 | 141109 | 25,40 |
| OU-47949 | 1018 RED. ESTIRADO 7,94 (5/16") | 1.052 | -0,051 | 141112 | 7,94 |
| OU-47949 | 1018 RED. ESTIRADO 17,46 (11/16") | 1.010 | -0,051 | 141114 | 17,46 |
| CA-47950 | 1018 RED. ESTIRADO 25,40 (1") | 998 | -0,051 | 141110 | 25,40 |
| CA-47950 | 1018 RED. ESTIRADO 31,75 (1 1/4") | 994 | -0,051 | 140119 | 31,75 |
| VI-48475 | 1018 RED. ESTIRADO 6,35 (1/4") | 1.122 | -0,051 | 141129 | 6,35 |
| PAJ-48144 | 1018 RED. ESTIRADO 25,40 (1") | 1.996 | -0,051 | 141279 | 25,40 |
| PAJ-48144 | 1018 RED. ESTIRADO 28,58 (1 1/8") | 1.012 | -0,051 | 141280 | 28,58 |
| PAR-48143 | 1018 RED. ESTIRADO 19,05 (3/4") | 1.468 | -0,051 | 141267 | 19,05 |
| PAR-48143 | 1018 RED. ESTIRADO 25,40 (1") | 2.992 | -0,051 | 141269 | 25,40 |
| PAR-48143 | 1018 RED. ESTIRADO 30,16 (1 3/16") | 836 | -0,051 | 916831 | 30,16 |
| MJP-48143 | 1018 RED. ESTIRADO 25,40 (1") | 1.996 | -0,051 | 141287 | 25,40 |
| MN-48543 | 1018 RED. ESTIRADO 25,40 (1") | 3.994 | -0,051 | 141414 | 25,40 |

Composición química de la colada / Chemical Analysis of Heat

| MEDIDA Measurement | OF | COLADA Cast Nr. | % C | % Cr | % Cu | % Mn | % Mo | % N | % Ni | % P | % S | % Si | |
|-----------------------|------|--------------------|----------|---------|---------|---------|---------|--------|---------|--------|--------|---------|-------|
| 25,40 | 0,00 | 137149 | 40655 G | 0,170 | 0,106 | 0,231 | 0,610 | 0,024 | 0,000 | 0,111 | 0,011 | 0,016 | 0,143 |
| 25,40 | 0,00 | 141109 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 7,94 | 0,00 | 141112 | 42134 GM | 0,170 | 0,000 | 0,290 | 0,710 | 0,000 | 0,007 | 0,000 | 0,020 | 0,008 | 0,160 |
| 17,46 | 0,00 | 141114 | 41994 AA | 0,157 | 0,000 | 0,000 | 0,600 | 0,000 | 0,000 | 0,000 | 0,013 | 0,025 | 0,163 |
| 25,40 | 0,00 | 141110 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 31,75 | 0,00 | 140119 | 41892 AG | 0,167 | 0,000 | 0,169 | 0,800 | 0,000 | 0,006 | 0,000 | 0,009 | 0,021 | 0,198 |
| 6,35 | 0,00 | 141129 | 41975 GM | 0,160 | 0,000 | 0,300 | 0,710 | 0,000 | 0,008 | 0,000 | 0,022 | 0,012 | 0,180 |
| 25,40 | 0,00 | 141279 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 28,58 | 0,00 | 141280 | 42186 AG | 0,171 | 0,000 | 0,000 | 0,600 | 0,000 | 0,004 | 0,000 | 0,009 | 0,023 | 0,194 |
| 19,05 | 0,00 | 141267 | 41645 G | 0,160 | 0,000 | 0,000 | 0,640 | 0,000 | 0,000 | 0,000 | 0,013 | 0,019 | 0,133 |
| 25,40 | 0,00 | 141269 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 30,16 | 0,00 | 916831 | 41411 AG | 0,165 | 0,000 | 0,000 | 0,758 | 0,000 | 0,000 | 0,000 | 0,016 | 0,021 | 0,220 |
| 25,40 | 0,00 | 141287 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 25,40 | 0,00 | 141414 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
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Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

| MEDIDA | OF | COLADA | Resistencia | Lím.elástico | Alargamiento | Dureza HB | Estricción % | |
|-------------|----|----------|----------------|--------------|--------------|-----------|--------------|-------|
| Measurement | | Cast Nr. | Tens. strength | Yield point | Elongation | Hardness | | |
| | | | N/mm2 | 0,2% N/mm2 | Lo=50 mm. | HB | | |
| 25,40 | | 137149 | 40655 G | 586,71 | 565,37 | 21,86 | 176,00 | 57,70 |
| 25,40 | | 141109 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 7,94 | | 141112 | 42134 GM | 706,60 | 658,20 | 10,30 | 216,00 | 61,76 |
| 17,46 | | 141114 | 41994 AA | 560,10 | 538,07 | 19,94 | 180,00 | 60,88 |
| 25,40 | | 141110 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 31,75 | | 140119 | 41892 AG | 571,60 | 542,70 | 34,68 | 180,00 | 58,35 |
| 6,35 | | 141129 | 41975 GM | 670,93 | 637,52 | 8,10 | 190,00 | 62,71 |
| 25,40 | | 141279 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 28,58 | | 141280 | 42186 AG | 541,06 | 518,47 | 14,54 | 156,00 | 56,31 |
| 19,05 | | 141267 | 41645 G | 632,89 | 593,23 | 19,38 | 200,00 | 55,28 |
| 25,40 | | 141269 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 30,16 | | 916831 | 41411 AG | 551,06 | 525,36 | 21,06 | 165,00 | 59,43 |
| 25,40 | | 141287 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 25,40 | | 141414 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |

Calidad Superficial

| DESCRIPCIÓN Description | OF | Clase EN 10277-1 |
|------------------------------------|--------|---------------------|
| 1018 RED. ESTIRADO 25,40 (1") | 137149 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141109 | 2 |
| 1018 RED. ESTIRADO 7,94 (5/16") | 141112 | 2 |
| 1018 RED. ESTIRADO 17,46 (11/16") | 141114 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141110 | 2 |
| 1018 RED. ESTIRADO 31,75 (1 1/4") | 140119 | 2 |
| 1018 RED. ESTIRADO 6,35 (1/4") | 141129 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141279 | 2 |
| 1018 RED. ESTIRADO 28,58 (1 1/8") | 141280 | 2 |
| 1018 RED. ESTIRADO 19,05 (3/4") | 141267 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141269 | 2 |
| 1018 RED. ESTIRADO 30,16 (1 3/16") | 916831 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141287 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141414 | 2 |

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR



ARANA Y LUPARDO, 2
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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfills the order specifications.

Fecha/Date: 23/11/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
ISO 9001:2008
www.tuv.com
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METALLURGICAL TEST REPORT 48226

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 276094 3

Customer: 007080 003

Date: 3/22/2017 Page: 1

Steel: 304/304L

Finish: CD

Your Order: NM55571

NAS Order: IN 0243769 02

Corrosion: ASTM A262-10 Prac A/E OR

PRODUCT DESCRIPTION

Round Bar, Annealed, Cold Draw
DIN 30400/30403 EN 10204 3.1, ASTM A484/15
ASTM A376/15, ASTM A479/15, ASTM A192/13 CHEM ONLY,
ASTM A479/13, ASTM A192/10 CHEM ONLY
AMS 5639E, AMS 5647J, AMS Q36-763D, Q36-763F, ASTM F899/11
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 OR B8
ASTM A193/10A-AMS A193/10 CL 1 OR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.223-7009 TO DISCREP
2011/65/EU.ROHS. MAP+AD+CC. NO WELD REPAIR, MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

| Product Id | Std & Diameter | Size | Weight | Length | Mark | Pieces | Commodity Code |
|------------|----------------|------|--------|--------|------|--------|----------------|
| BI4400 5 | .7500 | | 1,214 | 144.00 | 2 | 1 | |

CHEMICAL ANALYSIS CM(Country of Mkt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

| Element | CM | C % | CO % | CR % | CU % | MM % | MO % | NI % | PT % |
|---------|----|-------|-------|---------|-------|--------|-------|-------|--------|
| 269P | US | .0210 | .1735 | 10.1655 | .4445 | 1.3815 | .3430 | .0696 | 0.5225 |
| | | S % | SI % | | | | | | .0290 |
| | | .0250 | .2595 | | | | | | |

MECHANICAL PROPERTIES

| Product Id | 1 d o i r | Mo. | YTS | UTS | RA | RA % | Ring % 4D |
|------------|-----------------|-------|-------|--------|-------|------|--------------|
| BI4400 5 | RL | 201.0 | 71.96 | 101.19 | 68.06 | | 46.91 |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items

#4949

5P.

Eaton Steel Bar Company Inspection Certificate 1626286

EN 10204:2004-3.1

| Customer | ROL | Ship Date | Customer PO | Item | Customer Item | Item Description |
|----------|-------|-------------|-------------|---------------|---------------|--|
| | 07240 | 08-Mar-2017 | 800205 | 11144 REV 003 | V010342 | 34 HR RD 4140-42HRS 2070in SBO QTSF FG MST |

All bundles listed below were produced using steel from Heat M12673 issued by CERDAU-AMERCOE and were completed from Eaton Steel Job 896532.

| Element | Description | Value | Units | Element | Description | Value | Units |
|--------------|-------------------------------|-----------------|-------|-----------------|--------------------------------------|-------------|-------|
| C | Carbon | 0.40000 | FWOT | TEMPER TEMP F | Temper Temp in Fahrenheit | 1400 - 1500 | DSOF |
| Mn | Manganese | 0.85000 | FWOT | AUSTENIT TEMP F | Austenitise Temp in Fahrenheit | 1400 - 1700 | DSOF |
| P | Phosphorus | 0.01000 | FWOT | SR TEMP F | Stress Relief Temp in Fahrenheit | 500 - 2500 | DSOF |
| S | Sulfur | 0.02400 | FWOT | MAGNETISM-RT | Magnetism in Gauss | 0 - 20 | CM |
| Si | Silicon | 0.25000 | FWOT | TIME AT TEMP | Time at Temperature | Report | - |
| NI | Nickel | 0.12000 | FWOT | QUENCH MEDIA | Quench Media Requirements | PAN/O | - |
| Cr | Chromium | 0.96000 | FWOT | STRESS FREE | Cert stress free | CERTIFIED | - |
| Mo | Molybdenum | 0.18000 | FWOT | HT1410-42QT | Quench & Temper | COMFORMS | - |
| Al | Aluminum | 0.03000 | FWOT | Heat Process No | Description | Value | Units |
| Cu | Copper | 0.17000 | FWOT | MELT COUNTRY | Melted in Country | USA | - |
| V | Vanadium | 0.00200 | FWOT | ROLLED COUNTRY | Rolled in Country | USA | - |
| Co | Cobaltium | 0.00200 | FWOT | RSD RATIO | Reduction Ratio | 81.50 | RED |
| N | Nitrogen | 0.00000 | FWOT | ASTM Standard | Description | Value | Units |
| P-S | Element Sul Limit | 0.03400 | FWOT | A193/193M-01 | Grade B7 | COMFORMS | - |
| DI | Ideal Diameter | 5.07000 | IN | A434-90a-BC | ASTM BC Tensile and Yield properties | COMFORMS | - |
| Macro Etch | Description | Value | Units | Structure | Description | Value | Units |
| MACRO ETCH | Report macro etch results. | - | - | PERCENT TM | Percent Tempered Martensite | 80 - 100 | PCT |
| Diameter | Description | Value | Units | MICROSTRUCTURE | Reported Microstructure | TM | - |
| DIAMETER | Diameter | 0.7420 - 0.7500 | IN | Tag Number | Qty Units | Length | |
| | Description | Value | Units | 022-1921471 | 3305 LBS | 20ft | |
| J1 | 1/16 inch from Quenched End | 56 | HRC | ASTM A304 | | | |
| J2 | 2/16 inch from Quenched End | 56 | HRC | | | | |
| J3 | 3/16 inch from Quenched End | 56 | HRC | | | | |
| J4 | 4/16 inch from Quenched End | 56 | HRC | | | | |
| J5 | 5/16 inch from Quenched End | 56 | HRC | | | | |
| J6 | 6/16 inch from Quenched End | 56 | HRC | | | | |
| J7 | 7/16 inch from Quenched End | 56 | HRC | | | | |
| J8 | 8/16 inch from Quenched End | 52 | HRC | | | | |
| J9 | 9/16 inch from Quenched End | 52 | HRC | | | | |
| J10 | 10/16 inch from Quenched End | 50 | HRC | | | | |
| J11 | 11/16 inch from Quenched End | - | HRC | | | | |
| J12 | 12/16 inch from Quenched End | 48 | HRC | | | | |
| J14 | 14/16 inch from Quenched End | 46 | HRC | | | | |
| J16 | 16/16 inch from Quenched End | 46 | HRC | | | | |
| J18 | 18/16 inch from Quenched End | 43 | HRC | | | | |
| J20 | 20/16 inch from Quenched End | 42 | HRC | | | | |
| J22 | 22/16 inch from Quenched End | - | HRC | | | | |
| J24 | 24/16 inch from Quenched End | 40 | HRC | | | | |
| J26 | 26/16 inch from Quenched End | 38 | HRC | | | | |
| J28 | 28/16 inch from Quenched End | 36 | HRC | | | | |
| J32 | 32/16 inch from Quenched End | 36 | HRC | | | | |
| Tensile | Description | Value | Units | | | | |
| TENSILE PSI | Tensile Strength in PSI Units | - | PSI | | | | |
| YIELD PSI | Yield Strength in PSI Units | - | PSI | | | | |
| ELONGATION | Percent Elongation | - | PCT | | | | |
| REDUCTION | Percent Reduction in Area | - | PCT | | | | |
| BRINELL SURF | Brinell Surface | 246.0 | BHN | | | | |

Bundles tags with Eaton Steel identify reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steel's Quality Manual QA-00001 / Rev 3 / 2/29/13.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created on 09-Mar-2017

Thomas S. Smith, Corporate Metallurgist

10221 Capital Avenue, Oak Park, MI 48227 USA
http://www.eatonsteel.comTel: 248-389-3434
Fax: 248-389-1434



GERDAU SPECIAL STEEL NORTH AMERICA
5551 HOSBELL ROAD
JACKSON, MICHIGAN 49101

CERTIFIED MATERIAL TEST REPORT

| ITEM NO. | ITEM DESCRIPTION | ITEM SPECIFICATION | ITEM QUANTITY | ITEM DATE |
|--------------|------------------|--------------------|---------------|-----------|
| 142124 | 1012462/4140EPVD | M52573 | 283416 101 | 11/05/13 |
| DANIELI CAST | | | | |

ORDER BY
DAN MONTGOMERY
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK, MI 48237

EATON STEEL CORPORATION &
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
PELHAM, AL 35124

| ITEM NO. | ITEM DESCRIPTION | ITEM SPECIFICATION | ITEM QUANTITY | ITEM DATE |
|---|------------------|--------------------|---------------|-----------|
| 4160 | 0 3/4" | RND | 20' 2" | |
| ITEM 1012462 REV 1 STD 03/05/12, A29/A29M-12, A322-07 | | | | |

CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Ni | Cr | Mo | Cu | Sn | Al |
|-------|-------|-------|-------|------|------|------|------|------|-------|-------|
| 0.40 | 0.85 | 0.010 | 0.024 | 0.25 | 0.12 | 0.96 | 0.18 | 0.17 | 0.008 | 0.030 |
| V | Nb | | | | | | | | | |
| 0.002 | 0.002 | | | | | | | | | |

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDENABILITY SPECIFICATION ASTM A255/A304

| THEORETICAL | J1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 56 | 56 | 56 | 56 | 56 | 56 | 56 | 54 | 53 | 52 | 50 | 48 | 46 | 44 | 43 | 42 | 40 | 38 | 36 | | | | | | | |

DI CALCULATION SPECIFICATION CAT 180024

5.07

REDUCTION RATIO SPECIFICATION ITEM 1012462

RATIO- 81.5 TO 1.0

PAGE 1

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Wendy J. Craig
Quality Assurance Representative

CONTINUED ON PAGE 2



GERDAU SPECIAL STEEL NORTH AMERICA
3451 NORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

| | | | | |
|--------|------------------|--------|------------|----------|
| 142324 | 1012462/4140KPYD | M52571 | 283416 101 | 11/05/13 |
|--------|------------------|--------|------------|----------|

Daniel Cast

DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK, MI 48237

EATON STEEL CORPORATION &
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
PELHAM, AL 35124

| | | | | |
|------|--------|-----|-----|----|
| 4240 | 0 3/4" | RND | 20" | 2" |
|------|--------|-----|-----|----|

ITEM 1012462 REV 1 DTD 03/05/12, A29/A79M-12, A322-07

RESIDUAL MAX SPECIFICATION ITEM 1012462

P+S = 0.0340

RESIDUAL MIN SPECIFICATION ITEM 1012462

P+S = 0.0340

ASTM E381 MACRO ETCH SATISFACTORY: 51/R1/C1; MEETS SAE J422
S5/S5 RATING (WORST FIELD);


** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC
ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT
BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED
TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT
TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT
PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2


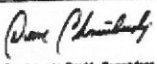
We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48163

Wendy J. Craig
Wendy J. Craig

|  Vulcan Threaded Products 10 Deane Court, Third Floor, St. Louis, MO 63102 Tel: (314) 425-4700 Fax: (314) 425-4700 | | JOB MATERIAL CERTIFICATION | |
|--|-----------------|---|-------------|
| Job No: 344313 | Job Information | Certified Date: 12/7/13 | |
| Containers: 87521276 87525200 | | 20071 Trolley Industrial Drive Taylor, MI 48180 | |
| Customer: Colon Steel Corporation | | Shipping Qty: 18442 Bn Line No: 1 | |
| Customer Part No: 1013403-001 | | | |
| Customer PO No: 143438-798733 | | | |
| Order No: 801400 | | | |
| Item: W0753733 A | | | |
| Part Information | | Material: Hot Rolled Steel | |
| Part No: HRS 4140.75B2140 Q&T B3 | | Alloy Type: 4140 | |
| Part Group: HT TOLL | | A36 - Temper: 4140 - | |
| Mass Weight: 30.000 | | | |
| Applicable Specifications | | | |
| Spec: 30128 | Spec: 30128 | Spec: 30128 | Spec: 30128 |
| Spec: 30128 | Spec: 30128 | Spec: 30128 | Spec: 30128 |
| Test Results | | | |
| See following pages for full | | | |
| Certified Chemical Analysis | | | |
| Notes | | | |
| <p>Material was reheat-treated, tested and inspected in accordance with Vulcan Threaded Products Inc. Quality Management Program and Internal Spec. A. 0000.</p> <p>AQ5111, reheat-treated material is Chartered and Tempered - Shock Free. No more repair performed on this material. No Material used in the production of this material. Shipped and Marked in the USA.</p> <p>Product Marking Required</p> <p>Average Char. Reading: 414</p> <p>The representative chemical of 100% tempered material from the surface to the center.</p> <p>Austenizing temp: 1750 degrees F.</p> <p>Test performed with the ASTM A570-12a specifications</p> | | | |

Cert 377069

| | | | | | |
|---|----------------|--|-----------------------|-----------------------------------|-----------------------|
|  Vulcan <small>THREADED PRODUCTS, INC.</small> | | <small>Vulcan Threaded Products 10 Cross Creek Trail Pickens, AL 35514 Tel (205) 854-4100 Fax (205) 854-4150</small> | | JOB MATERIAL CERTIFICATION | |
| Job No: 344313 Containers: 57521276 57525268 | | Job Information | | Certified Date: 12/7/13 | |
| Test Results | | | | | |
| Test No: 20758 Test: Crush & Tensile Properties (ASTM) | | | | | |
| Description | Results | Yield 6.3% Offset (ksi) | Elongation (%) | Strain Rate (in./in.) | Rate (in./min) |
| Crush & Tensile Properties Results | 140,380 | 138,700 | 17.4 | 40 | 40 |
| Test No: 20757 Test: Crush & Tensile Properties (ASTM) | | | | | |
| Description | Results | Yield 6.3% Offset (ksi) | Elongation (%) | Strain Rate (in./in.) | Rate (in./min) |
| Crush & Tensile Properties Results | 140,380 | 138,700 | 17.4 | 40 | 40 |
|  Christopher, David - Supervisor | | | | | |
| | | | | | Date 12/7/13 |

File: C:\Users\hmielke\AppData\Local\Temp\notes\E17B5\4474543_Order_Line_Status... 12/11/2013

2 #2512 4AL-141-V

TRA 1

49576



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan B1-Conac Industrial zone, My Xuan town, Tan Thanh district,
Bu Ri-Vung Tau province, Viet Nam
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: September 08, 2016

Consignee: SINOMETAL RESOURCES INC.
4455 RUE CONSENS SAINT-LAURENT, QUEBEC, H4S 1X5, CANADA
PO number: 16-P-178
Customer PO: Inventory
Shipping Ref No.: 16-1088
LC No.: DC 11MN614265
Date of issue: August 29, 2016
Item Code: 1040002
Die Number: GVA_D00269
Alloy & Temper: 6061-T6
Production Description: Flat Bar 1"x0.25"x 20' 6061-T6
Length (inch): 240
Bundle number: 16-P-178-090, 16-P-178-106
Heat Number: SXA160988
Date: 08/08/2016
Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

| Si | Mg | Fe | Cu | Mn | Cr | Zn | Ti | Al | Other | | Remarks |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------------|
| | | | | | | | | | EACH | TOTAL | |
| 0.705 | 1.006 | 0.164 | 0.295 | 0.079 | 0.171 | 0.009 | 0.016 | 97.458 | <0.05 | <0.10 | 06/08/2016 |

MECHANICAL ANALYSIS:

| Ult. Strength (ksi) | Yield Strength (ksi) | Elongation % LN 2" | Remarks |
|---------------------|----------------------|--------------------|------------|
| 40.3 | 37.4 | 11.2 | 06/08/2016 |

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

#2527

FAL-145

AC 1233
46974**Test de dureté Rockwell
Rockwell Hardness Test**Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**Adresse / Address : **4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2**# commande Sapa / Sapa order # : **6111705**# bon de commande / Purchase order # : **CA-46376**# de matrice / Die # : **MS 16561**Description : **5" X 1/4" FLATBAR**Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**# Contrôle / Control # : **81181-1**# Coulée / Cast # : **67915**

Dureté Rockwell E /

Rockwell E hardness : **94 HRE**

Min. requis /

Min. required : **88 HRE**

Max. permis /

Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| 6063 | 0.20 - 0.60 | 0.35 Max | 0.10 Max | 0.10 Max | 0.45 - 0.90 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005 | 0.60 - 0.90 | 0.35 Max | 0.10 Max | 0.10 Max | 0.40 - 0.60 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005A | 0.66 - 0.74 | 0.14 - 0.28 | 0.08 - 0.16 | 0.18 - 0.26 | 0.46 - 0.54 | 0.03 Max | 0.05 Max | 0.05 Max |
| 6061 | 0.40 - 0.80 | 0.70 Max | 0.15 - 0.40 | 0.15 Max | 0.80 - 1.20 | 0.04 - 0.35 | 0.25 Max | 0.15 Max |
| 6351 | 0.7 - 1.3 | 0.5 Max | 0.10 Max | 0.40 - 0.80 | 0.40 - 0.80 | — | 0.20 Max | 0.20 Max |

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,date : **2016-12-07**Gilles Pelletier
Technicien de la qualité
Quality technician

2617



FAL-382-V

TRA-1735

49546

GLOBAL VIETNAM ALUMINIUM CO., LTD

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: November 17, 2017

Applicant/Consignee: SINOPEC TRADING INC.

4455 RUE COUSSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-17529

Shipping Ref No.: 17-2204

LC No.: DCHMN714466

Date of issue: October 31, 2017

Item Code: 1003600

Die Number: D00205

Alloy & Temper: 6061-T6

Production Description: FLAT BAR 3750"X2"X 20' 6061-T6 D00205

Length (inch): 240

Bundle number: P-17529-045

Heat Number: SXF171944

Date: 14/10/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

| Si | Mg | Fe | Cu | Mn | Cr | Zn | Ti | Al | Other | | Remarks |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------------|
| | | | | | | | | | EACH | TOTAL | |
| 0.602 | 0.942 | 0.247 | 0.238 | 0.034 | 0.094 | 0.015 | 0.021 | 97.708 | <0.05 | <0.10 | 12/10/2017 |

MECHANICAL ANALYSIS:

| Ult. Strength (ksi) | Yield Strength (ksi) | Elongation % LN 2" | Remarks |
|---------------------|----------------------|--------------------|------------|
| 40.7 | 36.8 | 11.3 | 12/10/2017 |

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
THANH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

MILL TEST

| | | | | | | | |
|--|--|---------------------------------|--|--------------|---|-------------------------|------------------------|
| SHIP TO ACIER OUELLETTE | | CERT CODE: 1 | DIE NUMBER S 4651 | | DATE OF SHIPMENT Jul/14/2016 | ORDER NO. 195600 - 3 | MANIFEST NO. 352829 |
| SO DESCRIPTION 1/2" X 2.5" FLAT BAR | | CUSTOMER PO 99125 | ALLOY 6061 | TEMPER T6 | SALESMAN HOUSE ACCOUNTS | MADE IN CANADA | |
| | | CUSTOMER PART NUMBER DT04651 | PART DESCRIPTION 1/2" X 2.5" FLAT BAR | | CERTIFICATION MILL TEST ASTM B221-14 | | |

Mechanical Properties

| | | | | | | | |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell E | Conductivity |
| A.11 | 6061 | Jul/07/2016 | 41.00 | 37.50 | 16.50 | 86.1, 86.6, 86.4 | |



David Natale
Quality Control Manager

BON DE LIVRAISON

| | | | |
|---------------------|------------|----------------------------|-----------------|
| NO DU BON | 120719 | DATE DE LIVRAISON | 30/May/17 |
| NIR: | R-015478-2 | NO DE TELEPHONE DU CLIENT: | 450-963-3693 |
| NO COMMANDE CLIENT: | OU-47807 | REPRESENTANT: | Guillaume Morin |
| CHAUFFEUR: | JP COMEAU | NO COMMANDE EXTRUDEUR: | 105013 |

| | |
|---|---------------------|
| ACIER OUELLETTE 22, BOUL. J-F KENNEDY ST-JEROME, QC J7Y 4B6 | NO CLIENT: L-3693-3 |
| LIVRE A | FINITO |
| ACIERS TRANSBEC (1997) LTEE 4054, BOUL. LE CORBUSIER #201 LAVAL, QC H7L 5R2 | NATUREL MILL |
| NO CLIENT: 3693 | 16 |
| NO DE PIÈCE | 6081/T6 |
| DESCRIPTION | BARRE PLATE 6X 1/2 |
| NO DE PIÈCE | 6081/T6 |
| NO DE PIÈCE | 6081/T6 |

3 MILLTEST + CERT. CONFORMITE

Mill Test (Tensile Properties of Aluminum)

Test Date.: 26/May/17

| Order No. | Alloy | Temper | Yield (ksi) | Ultimate Tensile (ksi) | Total Elongation (%) | Hardness (Rockwell E) | Conductivity % | Report No. |
|---------------|-------|--------|-------------|------------------------|----------------------|-----------------------|----------------|------------|
| 105013-11-1A1 | 6061 | T6 | 38.8 | 42.1 | 19.50 | 93.30 | | 7165 |

Certificate of compliance (Certificat de conformité)

Normes: (ANSI H35.1-1997) & (ASTM B221)

Order No. Hardness (Webster) #1 #2 Cast No. CAST CHEMICAL COMPOSITION:

| Order No. | Hardness (Webster) #1 | Hardness (Webster) #2 | Cast No. | Al | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Ga | V | B | Zr | Bi | Pb | Sn | Sr | Co |
|---------------|-----------------------|-----------------------|----------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 105013-11-1A1 | 15 | 15 | 36629 | 98.01 | 0.56 | 0.21 | 0.20 | 0.08 | 0.87 | 0.06 | 0.01 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

VÉRIFICATION DE MATÉRIEL

DATE 30/05/17

VÉRIFIÉ PAR

SIGNATURE

SIGNATURE
CLIENT:

DATE:

11

#2466

FAL-12112-V

Trans - 919
49253

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7011453

bon de commande / Purchase order # : OU-47404

de matrice / Die # : MS 9442

Description: 1 1/2" x 1/2" FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 84113-1

Coulée / Cast # : 68295

Dureté Rockwell E /
Rockwell E hardness : 94 HREMin. requis /
Min. required : 88 HREMax. permis /
Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| 6063 | 0.20 - 0.60 | 0.35 Max | 0.10 Max | 0.10 Max | 0.45 - 0.90 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005 | 0.60 - 0.90 | 0.35 Max | 0.10 Max | 0.10 Max | 0.40 - 0.60 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005A | 0.66 - 0.74 | 0.14 - 0.28 | 0.08 - 0.16 | 0.18 - 0.26 | 0.46 - 0.54 | 0.03 Max | 0.05 Max | 0.05 Max |
| 6061 | 0.40 - 0.80 | 0.70 Max | 0.15 - 0.40 | 0.15 Max | 0.80 - 1.20 | 0.04 - 0.35 | 0.25 Max | 0.15 Max |
| 6351 | 0.7 - 1.3 | 0.5 Max | 0.10 Max | 0.40 - 0.80 | 0.40 - 0.80 | — | 0.20 Max | 0.20 Max |

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : 2017-02-15

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

FAL-12112-V

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

| | | | | | |
|---------------------------------|-------------------------|-----------------------------------|---------------------------------|--|----------------------|
| CUSTOMER PO NUMBER: 791453-1 | | CUSTOMER PART NUMBER: 51315984 | | PRODUCT DESCRIPTION: .500 X 12.000 PRECISION WIDE BAR | |
| KAISER ORDER NUMBER: 6031235 | LINE ITEM: 001 | SHIP DATE: 05/19/2017 | KAISER LOT NUMBER: Z00108157 | ALLOY: 6061 | TEMPER: T6511 |
| WEIGHT SHIPPED: 1016.000 LB | QUANTITY: 12.000 PCS | S/N NUMBER: 619175 | DIAM/DA/THICKS: | WIDTH: | LENGTH: 12.000 FT |

Actual Physical Properties

| REFERENCE | DASH# | SAMPLE# | UTS (KSI) | YTS (KSI) | ELONG% | HARDNESS | CONDUCT. | BEND |
|-----------|-------|---------|-----------|-----------|--------|----------|----------|------|
| Z00108157 | 0001 | 0001 | 51.8 | 46.3 | 12.3 | RE 95 | N/A | N/A |
| Z00108157 | 0002 | 0001 | 51.6 | 46.7 | 10.8 | RE 95 | N/A | N/A |
| Z00108157 | 0002 | 0002 | 49.7 | 44.5 | 11.0 | RE 93 | N/A | N/A |

Chemical Composition (wt%), Aluminum Remainder

| LIMITS | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Pb | Bi | Zr | Ea | Tot |
|---------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|
| Maximum | 0.80 | 0.70 | 0.40 | 0.15 | 1.20 | 0.35 | 0.25 | 0.15 | NA | NA | NA | 0.05 | 0.15 |
| Minimum | 0.40 | 0.00 | 0.15 | 0.00 | 0.80 | 0.04 | 0.00 | 0.00 | NA | NA | NA | 0.00 | 0.00 |
| 107310 | .77 | .24 | .26 | .12 | .87 | .08 | .17 | .02 | .00 | .00 | .00 | .01 | .03 |

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00287371
Kaiser Order Number: 6031235
Line Item: 001

#0532

FAH 14

MILL TEST

| | | | | | |
|--------------------------------|---------------------------------|----------------------------------|---------------------------------|---|------------------------|
| SHIP TO ACIER QUELETTE | CERT CODE: 1 | DIE NUMBER S 4657 | DATE OF SHIPMENT Dec/06/2017 | ORDER NO. 212394 - 2 | MANIFEST NO. 382626 |
| SO DESCRIPTION FLAT 4" X 1" | CUSTOMER PO 105987 | ALLOY 6061 | SALESMAN HOUSE ACCOUNTS | MADE IN CANADA | |
| | CUSTOMER PART NUMBER SO04657 | PART DESCRIPTION FLAT 4" X 1" | | CERTIFICATION MILL TEST ASTM B221-14 | |

Mechanical Properties

Lot A.11 Alloy 6061
Test Date Nov/28/2017
Ultimate Tensile Strength (KSI) 42.80
Yield Strength (KSI) 39.80
Percent Elongation 10.00
Hardness Rockwell F 86.0, 86.8, 87.6
Conductivity

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Ga | V | B | Zr | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|------|------|-----|------|------|------|----|------|------|----|---|---|----|----|----|----|----|----|-------|
| 387163 | A.11 | 6061 | 0.58 | 0.15 | 0.2 | 0.03 | 0.86 | 0.07 | 0 | 0.01 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager



Service Center Metals
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



| OUR ORDER NUMBER | ITEM |
|------------------|------|
| 289111 | 11 |

| | | | |
|--------------------|-----------------|----------------|-----------------------|
| | MANIFEST NUMBER | DIE NUMBER | DATE OF SHIPMENT |
| | 327862 | PL0741 | 3/30/2017 |
| | CUSTOMER PO | ALLOY / TEMPER | SALESPERSON |
| | C74189 | 6061-T8511 | D. Schroeder (Canada) |
| Quantity Certified | 2,032 lbs | 12 pcs | CUSTOMER PART NUMBER |
| | | | V832861-PL0741 |
| | | | DESCRIPTION |
| | | | PL 1.000 x 12.000 |

| |
|-------------------------|
| CERTIFICATION |
| ASTM-B221-14 No Stencil |
| SPECIFICATION |
| AMS-QQA-200/8 Rev-A |

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T8511 also meet the requirements of 6061-T6. This product is RoHS-2, REACH, and DFARS compliant.

| Mechanical Properties | | Test Date | Ultimate Tensile Strength (KSI) | | Yield Strength (KSI) | | Percent Elongation | |
|-----------------------|-----------|-----------|---------------------------------|-------|----------------------|-------|--------------------|-------|
| Tests | Lot No. | | min | max | min | max | min | max |
| 1 | 201704837 | 3/30/17 | 50.40 | 50.40 | 46.50 | 46.50 | 16.60 | 16.60 |

Chemical Composition for Aluminum Alloy 6061

| Cast # | Lot No. | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Al | Others | Total | Melt Source |
|-------------|-----------|-------|------|------|------|------|------|------|------|------|-------|--------|-------|--------------------------|
| 001M170313A | 201704837 | 6061 | 0.75 | 0.38 | 0.33 | 0.10 | 0.89 | 0.10 | 0.07 | 0.03 | 97.36 | 0.05 | 0.15 | United States of America |

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 3/30/2017

Rev 6/9/16

MILL TEST

| | | | | | | |
|---------------------------------|--|---------------------------------|----------------------|---------------------------------|---|------------------------|
| SHIP TO ACIER OUELLETTE | | CERT CODE: 1 | DIE NUMBER S 4763 | DATE OF SHIPMENT Sep/29/2016 | ORDER NO. 197683 | MANIFEST NO. 357684 |
| SO DESCRIPTION 1.250" SQUARE | | CUSTOMER PO 100684 | ALLOY 6061 | SALESMAN HOUSE ACCOUNTS | MADE IN CANADA | |
| | | CUSTOMER PART NUMBER DT04763 | TEMPER T6 | | CERTIFICATION MILL TEST ASTM B221-14 | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell F | Conductivity |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | Sep/22/2016 | 44.70 | 39.60 | 10.80 | 89.9,90.4,90.7 | |

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Ga | V | B | Zr | Bi | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|------|------|------|------|-----|------|----|------|------|----|---|---|----|----|----|----|----|----|----|-------|
| 16097341B | A.11 | 6061 | 0.55 | 0.17 | 0.21 | 0.01 | 0.8 | 0.08 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale

David Natale
Quality Control Manager

#2439

C73899



GVA
Global Vietnam
Aluminium Co., Ltd

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 25 March, 2017

Consignee: SINOPEC TRADING INC.
4455 RUE COUSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-17025

Shipping Ref No.: 17-0459

LC No.: DC HMN710996

Date of issue: 15 March, 2017

Item Code: 1906000

Dia Number: D00242

Alloy & Temper: 6061-T6511

Production Description: FLAT BAR 1.5000" X 2.5000" X 12' 6061-T6511 D00242

Length (inch): 144

Bundle number: P-17025-009

Heat Number: SXD170240

Date: 3/6/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

| Si | Mg | Fe | Cu | Mn | Cr | Zn | Ti | Al | Other | | Remarks |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|----------|
| | | | | | | | | | EACH | TOTAL | |
| 0.623 | 0.928 | 0.206 | 0.267 | 0.016 | 0.101 | 0.011 | 0.021 | 97.732 | <0.05 | <0.10 | 3/3/2017 |

MECHANICAL ANALYSIS:

| Ult. Strength (ksi) | Yield Strength (ksi) | Elongation % LN 2" | Remark: |
|---------------------|----------------------|--------------------|----------|
| 40.7 | 35.4 | 10.9 | 3/3/2017 |

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

R211559

41867974-1405

FAL-381-20

#2610

FAL 381

MILL TEST

| | | | | | | | | | |
|--------------------|--|----------------------|--|--------------------|--|------------------------|--|--------------|--|
| SHIP TO | | SHIP TO | | DATE OF SHIPMENT | | ORDER NO. | | MANIFEST NO. | |
| ACIER OUELLETTE | | S | | Nov/03/2016 | | 198958 - 1 | | 359787 | |
| SO DESCRIPTION | | CUSTOMER PO | | SALESMAN | | MADE IN CANADA | | | |
| 1" X 3/8" FLAT BAR | | 101434 | | HOUSE ACCOUNTS | | | | | |
| | | CUSTOMER PART NUMBER | | PART DESCRIPTION | | CERTIFICATION | | | |
| | | DT02222 | | 1" X 3/8" FLAT BAR | | MILL TEST ASTM B221-14 | | | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell E | Conductivity |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | Oct/27/2016 | 43.50 | 39.30 | 18.40 | 88.2, 88.5, 87.9 | |

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Al | Ga | V | B | Zr | Pb | Sn | Co | Al | Other |
|-------------|------|-------|-----|------|-----|------|------|------|----|------|------|----|---|---|----|----|----|----|----|-------|
| 384191 | A.11 | 6061 | 0.6 | 0.18 | 0.2 | 0.03 | 0.86 | 0.07 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **6110739**

bon de commande / Purchase order # : **OU-47005**

de matrice / Die # : **MS 16838**

Description: **SQUARE BAR 1.500"X1.50"**

Alliage & trempage / Alloy & temper: **6061 T6**

Longueur / Length: **6097 mm**

de contrôle / Control # : **80133-1**

de coulée / Cast # : **68055**

Dureté Rockwell E /
Rockwell E hardness : **95 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| 6063 | 0.20 - 0.60 | 0.35 Max | 0.10 Max | 0.10 Max | 0.45 - 0.90 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005 | 0.60 - 0.90 | 0.35 Max | 0.10 Max | 0.10 Max | 0.40 - 0.60 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005A | 0.66 - 0.74 | 0.14 - 0.28 | 0.08 - 0.16 | 0.18 - 0.26 | 0.46 - 0.54 | 0.03 Max | 0.05 Max | 0.05 Max |
| 6061 | 0.40 - 0.80 | 0.70 Max | 0.15 - 0.40 | 0.15 Max | 0.80 - 1.20 | 0.04 - 0.35 | 0.25 Max | 0.15 Max |
| 6351 | 0.7 - 1.3 | 0.5 Max | 0.10 Max | 0.40 - 0.80 | 0.40 - 0.80 | — | 0.20 Max | 0.20 Max |

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : **2016-12-15**



Gilles Pelletier
Technicien de la qualité
Quality technician

CAL 113

MILL TEST

| | | | | | | | | | |
|--------------------|--|----------------------|--|--------------------|--|------------------|--|------------------------|--------------|
| SHIP TO | | CERT CODE: | | DIE NUMBER | | DATE OF SHIPMENT | | ORDER NO. | MANIFEST NO. |
| ACIER OUELLETTE | | 1 | | S 4769 | | Jan/19/2017 | | 201364 - 1 | 363949 |
| SODescription | | CUSTOMER PO | | ALLOY | | SALESMAN | | MADE IN CANADA | |
| 3" X 1.5" FLAT BAR | | 102749 | | 6061 | | HOUSE ACCOUNTS | | | |
| | | CUSTOMER PART NUMBER | | PART DESCRIPTION | | | | CERTIFICATION | |
| | | SO04769 | | 3" X 1.5" FLAT BAR | | | | MILL TEST ASTM B221-14 | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell F | Conductivity |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | Jan/12/2017 | 42.40 | 39.00 | 13.70 | 86.0,86.1,86.3 | |

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Ga | V | B | Zr | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|-----|------|------|------|------|------|----|------|------|----|---|---|----|----|----|----|----|----|-------|
| 384719 | A.11 | 6061 | 0.6 | 0.14 | 0.19 | 0.03 | 0.86 | 0.06 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale

David Natale
Quality Control Manager

1 - CUSTOMER COPY

2445

FAL-1123-V

FAL 1123

TCA-2011
4927D

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60616B3.000x01.500

PO / BATCH NO: 038785/5033414

DATE: JAN 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 01.500
 THICKNESS RECEIVED: 01.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|----------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y N | <u>As per B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y N | <u>Heat # 309719</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) |
|--|-------------------------------------|-----------------------------------|
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JAN 19 2018</u> | SIGNED OFF BY: _____ DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT X WW WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | | |
|------------|----------|-----------------------------|----|----------|
| DESIGN | DS | DESCRIPTION | CP | 09.07.13 |
| DRAWN | DS | DART AEROSPACE LTD | DS | 01.06.08 |
| CHECKED | DS | HAWKESBURY, ONTARIO, CANADA | BY | DATE |
| MFG. APPR. | DS | DRAWING NO. | | |
| APPROVED | DS | M6061T6B | | |
| DE APPR. | DS | TITLE | | |
| DATE | 09.07.13 | 6061-T6 BAR | | |

REV. B
SHEET 1 OF 1
SCALE
NTS

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WRITTEN PERMISSION OF DART AEROSPACE LTD.

RELEASED
2009-05-03
JWD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B1.500x01.500

PO / BATCH NO.: 08785/5033413

DATE: JAN 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|-----------------------|--------------|
| SURFACE DAMAGE | Y (N) | |
| CORRECT FINISH | (Y) N | |
| CORROSION | Y (N) | |
| CORRECT GRAIN DIRECTION | (Y) N | |
| CORRECT MATERIAL PER M-DRAWING | (Y) N | Astm B221 |
| CORRECT THICKNESS | (Y) N | |
| PHOTO REQUIRED | Y (N) | |
| CORRECT REF # TO LINK CERT | (Y) N | Heat # 68055 |
| CORRECT MATERIAL IDENTIFICATION | (Y) N | |
| CORRECT M# ON THE MATERIAL | (Y) N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y (N) | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y (N) | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
|-------------------------------|--|-----------------------------------|--|
| INSPECTED BY: <u>DAS</u> | | SIGNED OFF BY: _____ | |
| DATE: <u>9-89 JAN 19 2018</u> | | DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4154/116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B

T.TTT X WW.WWW/
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | |
|-----------|---|---|----------|
| REV | DESCRIPTION | CP | 08.07.13 |
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1) | DS | 01.06.08 |
| A | NEW ISSUE | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | |
| DRAWN | AS | DRAWING NO. HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | AS | M6061T6B | |
| MFG. APPR | AS | REV. B | |
| APPROVED | AS | SHEET 1 OF 1 | |
| DE APPR | AS | SCALE | |
| DATE | 09.07.13 | NTS | |

RELEASED
2009-09-03
MAD

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4606146 B0.750x03.000

PO / BATCH NO. 038785/5033412

DATE: JAN 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|-----------------------|--------------|
| SURFACE DAMAGE | Y (N) | |
| CORRECT FINISH | (Y) N | |
| CORROSION | Y (N) | |
| CORRECT GRAIN DIRECTION | (Y) N | |
| CORRECT MATERIAL PER M-DRAWING | (Y) N | |
| CORRECT THICKNESS | (Y) N | |
| PHOTO REQUIRED | Y (N) | |
| CORRECT REF # TO LINK CERT | (Y) N | Heat # 36740 |
| CORRECT MATERIAL IDENTIFICATION | (Y) N | |
| CORRECT M# ON THE MATERIAL | (Y) N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y (N) | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y (N) | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
|-------------------------|--------------------------|-----------------------------------|--|
| INSPECTED BY: <u>11</u> | SIGNED OFF BY: _____ | | |
| DATE: <u>9-89</u> | DATE: <u>JAN 19 2018</u> | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION:
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4111/4128/4154/4110)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

| | | | |
|----------|------|---|---------|
| M6061T6B | T.TT | X | www.www |
|----------|------|---|---------|

THICK WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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RELEASED
2009-05-08
AW

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B0.375x01.250

PO / BATCH NO.: 038785/5033411

DATE: JAN 22 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 60'
 QUANTITY INSPECTED: 60'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375
 THICKNESS RECEIVED: .375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|--------------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y N | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y N | <u>that it 201701926</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
|---|-------------------------------------|-----------------------------------|--|
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89</u> <u>JAN 22 2018</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**Service Center Metals**5850 Quality Way
Prince George, VA 23875**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**

| OUR ORDER NUMBER | ITEM |
|------------------|------|
| 284260 | 1 |

| | | | |
|--------------------|-----------------|----------------------|-----------------------|
| | MANIFEST NUMBER | DIE NUMBER | DATE OF SHIPMENT |
| | 321955 | RB0082 | 2/7/2017 |
| | CUSTOMER PO | ALLOY / TEMPER | SALESPERSON |
| | C73927 | 6061-T8511 | D. Schroeder (Canada) |
| Quantity Certified | 1,214 lbs | CUSTOMER PART NUMBER | DESCRIPTION |
| 110 pcs | | V831232 | SCRB .375x1.250 |

| |
|-------------------------|
| CERTIFICATION |
| ASTM-B221-14 No Stencil |
| SPECIFICATION |
| AMS-QQA-200/8 Rev-A |

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T8511 also meet the requirements of 6061-T6. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

| Tests | Lot No. | Test Date | Ultimate Tensile Strength (KSI) | | Yield Strength (KSI) | | Percent Elongation | |
|-------|-----------|-----------|---------------------------------|-------|----------------------|-------|--------------------|-------|
| | | | min | max | min | max | min | max |
| 2 | 201701928 | 2/7/17 | 43.60 | 43.80 | 38.70 | 40.40 | 15.60 | 15.80 |

Chemical Composition for Aluminum Alloy 6061

| Cast # | Lot No. | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Al | Others | | Melt Source: |
|-------------|-----------|-------|------|------|------|------|------|------|------|------|-------|--------|-------|--------------------------|
| | | | | | | | | | | | | Each | Total | |
| 002K170122B | 201701926 | 6061 | 0.61 | 0.22 | 0.18 | 0.07 | 0.85 | 0.07 | 0.01 | 0.02 | 97.98 | 0.05 | 0.15 | United States of America |

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 2/7/2017

Rev 9/9/16

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT X WW.WWW/
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | |
|------------|---|----|----------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | | | |
| CHECKED | DS | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 09.07.13 | | |

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6B

TITLE 6061-T6 BAR

REV. B

SHEET 1 OF 1

SCALE NTS

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RELEASED
2009-09-03
MJD



ACIER QUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MB: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MB: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00070815

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K2

Shipped to

, Ontario,

Alt: CHANTAL LAVOIE Tél: 613-632-5200

Instruction F-M

Delivery Route S

Page

1

Credit Terme

Net 30 Days

Salesman

Processed by

Josianne Bourdon

Carrier

QUELLETTE VALLEYFIELD

Your order N°

038785

Delivery date

2018/01/23

Customer N° CL10001056

Date 2018/01/23

| Product Description | Weight | Qty | U/M | PCS NB | | | Internal Use Only | | | | |
|---|--------|-------|----------|--------|-----|-----|-------------------|---|---|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S | C | OUT |
| 1 FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609 3 X 20' HEAT: 201701926 REFERENCE INVOICE 71934 | 33.06 | 60.00 | PL \$CLB | | | | | | | | |

Conditions:

All sold and delivered materials remain the property of "Acier Quellette Inc." until payment is made in full, complete and cashed. All test materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Not 30 days from billing date and the buyer accepts to pay administration charges of 25% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, lost or mislaid must be returned. All goods returned must be with our authorization and are subject to a 25% reshipping charge.

Total Weight (lbs): 33.06

MIR: R-109516-6

Prepared By:

Verified By:

Delivered By:

Time

Customer's Signature

Date

Total (\$CAD)

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061t6 B2.500x01.500 PO / BATCH NO: 038785/503340
 DATE: JAN 19 2018

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 24"
 QUANTITY INSPECTED: 24"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 01.500
 THICKNESS RECEIVED: 01.500
 3-FEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|-------------------------|
| SURFACE DAMAGE | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT FINISH | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| CORROSION | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input type="radio"/> Y <input checked="" type="radio"/> N | <u>As per B2 21</u> |
| CORRECT THICKNESS | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input type="radio"/> Y <input checked="" type="radio"/> N | <u>Heat # 50X170240</u> |
| CORRECT MATERIAL IDENTIFICATION | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT Mktg ON THE MATERIAL | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | <input type="radio"/> Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--|-------------------------------------|-----------------------------------|--|
| QC-18-INS-01-0101 | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JAN 19 2018</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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R 2009-09-03
MD

| | | | |
|---|--|--------------|----------|
| B | REMOVE QQ-A-250/11 OPTION. REFORMAT NOTES. ADD ASTM B211/B221 (2ND EDITION) | CP | 09 07 13 |
| A | NEW ISSUE | DS | 01 06 08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | DS | | |
| CHECKED | DS | | |
| MFG APPR. | DS | | |
| APPROVED | DS | | |
| DE APPR. | DS | | |
| DATE | 09.07.13 | | |
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | | |
| DRAWING NO. M6061T6B | | REV. B | |
| TITLE 6061-T6 BAR | | SHEET 1 OF 1 | |
| DATE | | SCALE | |
| 09.07.13 | | NTS | |
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606146B1.250X01.250

PO / BATCH NO: 038785 6033469

DATE: JAN 19 2018

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|---|-------------------------|
| SURFACE DAMAGE | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORROSION | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO MHC CERT | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | <u>Heat # 16097341B</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT MPN ON THE MATERIAL | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|-------------------------------|--|--|--|
| QC-18 INSPECTION SHEET | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS</u> | | SIGNED OFF BY: _____ | |
| DATE: <u>9-89 JAN 19 2018</u> | | DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T652 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW/

THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES
 E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | | | |
|------|-----------|----|--|----|----------|
| REV | DESIGN | DS | DESCRIPTION | CP | 09.07.13 |
| B | DRAWN | DS | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | DS | 01.06.08 |
| A | CHECKED | DS | NEW ISSUE | BY | DATE |
| | MFG. APPR | | | | |
| | APPROVED | | | | |
| | DE APPR | | | | |
| DATE | 09.07.13 | | | | |

| | | |
|-----------------------------|-------------|--------------|
| DART AEROSPACE LTD | | REV. B |
| HAWKESBURY, ONTARIO, CANADA | | SHEET 1 OF 1 |
| DRAWING NO. | M6061T6B | SCALE |
| TITLE | 6061-T6 BAR | NTS |

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 2009-09-03
 NTS

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 B1-000X12.000

PO / BATCH NO.: 038785/5033408

DATE JAN 19 2018

| | |
|---------------------|-----|
| MATERIAL CERT REC'D | YES |
| QUANTITY RECEIVED | 12" |
| QUANTITY INSPECTED | 12" |
| QUANTITY REJECTED | 0 |

THICKNESS ORDERED: 1.000

THICKNESS RECEIVED: 1.002

SHEET SIZE ORDERED: N/A

SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y N | Astm - B221 |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y N | Heat # 201704837 |
| CORRECT MATERIAL IDENT. MARKING | <input checked="" type="radio"/> Y N | |
| CORRECT MARK ON THE MATERIAL | <input checked="" type="radio"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| | | | | | |
|--|-----|-----|-------|-------|---------|
| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | | |
| RECORD RESULTS BELOW | | | | | |
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

INSPECTED BY: DAS 11 9-89 JAN 19 2018 DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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R 2009-08-02
MAD

| | | | |
|------------|--|--|--------------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | AS | DRAWING NO. | REV. B |
| CHECKED | AS | M6061T6B | SHEET 1 OF 1 |
| MFG. APPR. | AS | TITLE | SCALE |
| APPROVED | AS | 6061-T6 BAR | NTS |
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| DATE | 09.07.13 | | |

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 7606 176B 1.000X04.000
 DATE: JAN 19 2018

PO / BATCH NO.: 038785/5033407

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12"
 QUANTITY INSPECTED: 12"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: 219
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|---|----------------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | <u>West #387163 3B7163</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|-------------------------------|----------------------|-----------------------------------|-------------|
| 00-18-INS-0101 | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS</u> | SIGNED OFF BY: _____ | DATE: <u>11</u> | DATE: _____ |
| DATE: <u>9-89 JAN 19 2018</u> | | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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N 2009-09-03
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| | | | |
|--|---|----|----------|
| B | REMOVE QQ-A-250/11 OPTION REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | DS | | |
| CHECKED | DS | | |
| MFG APPR. | DS | | |
| APPROVED | DS | | |
| DE APPR. | DS | | |
| DATE | 09.07.13 | | |
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | | |
| DRAWING NO. M6061T6B | | | |
| SHEET 1 OF 1 | | | |
| TITLE 6061-T6 BAR | | | |
| SCALE NTS | | | |
| DATE 09.07.13 | | | |
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1606146B3.500X12.000
 DATE: JAN 19 2014

PO / BATCH NO: 0387 038785/5033406

MATERIAL CERT REQ'D Yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|-----------------------------------|
| SURFACE DAMAGE | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORROSION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| PHOTO REQUIRED | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>Heat # 200108157 200108157</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT M/CN ON THE MATERIAL | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | <input type="radio"/> Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | <input type="radio"/> Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--|-------------------------------------|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JAN 19 2014</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△B

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW/
 THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-09-03
MD

| | | | |
|------------|---|----|----------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZNDZ-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | | | |
| CHECKED | <i>ASS</i> | | |
| MFG. APPR. | | | |
| APPROVED | <i>MD</i> | | |
| DE APPR. | <i>MD</i> | | |
| DATE | 09.07.13 | | |

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6B
 TITLE 6061-T6 BAR
 REV B
 SHEET 1 OF 1
 SCALE NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B0.500X1.500

PO / BATCH NO: 038785/5033405

DATE: JAN 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|--------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N | Astm B221 |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | Y <input checked="" type="radio"/> N | Heat # 68295 |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N | |
| CORRECT M# ON THE MATERIAL | Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--|-------------------------------------|-----------------------------------|--|
| QC 18 INSPECTION SHEET | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-80 JAN 19 2019</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03
MD

| | | | |
|------------|--|---|--------------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | |
| DRAWN | AS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | AS | DRAWING NO. | REV. B |
| MFG. APPR. | MD | M6061T6B | SHEET 1 OF 1 |
| APPROVED | MD | TITLE | SCALE |
| DE APPR. | MD | 6061-T6 BAR | NTS |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD. | |

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 H6 B0.500x06.000 PO / BATCH NO. 038785/5033404
 DATE: JAN 19 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 40"
 QUANTITY INSPECTED: 40"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|---------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>Heat # 36629</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT MFG ON THE MATERIAL | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | |
|---|--|
| QC 18 INS-0100K INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89</u> DATE: <u>JAN 19 2018</u> | ENGINEERING SIGNOFF (if required) SIGNED OFF BY: _____ DATE: _____ |
|---|--|

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

| | | | |
|------------|--|---|--------------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | |
| DRAWN | DS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | DS | DRAWING NO. | REV. B |
| MFG. APPR. | DS | M6061T6B | SHEET 1 OF 1 |
| APPROVED | DS | TITLE | SCALE |
| DE APPR. | DS | 6061-T6 BAR | NTS |
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176B0.500x02.500

PO / BATCH NO: 038785/5033403

DATE: JAN 19 2018

MATERIAL CERT REQ'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|---------------------------------------|---------------------|
| SURFACE DAMAGE | Y <input checked="" type="checkbox"/> | |
| CORRECT FINISH | <input checked="" type="checkbox"/> N | |
| CORROSION | Y <input checked="" type="checkbox"/> | |
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> N | <u>Asm B221-14</u> |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="checkbox"/> | |
| CORRECT REF # TO LINK CERT | <input checked="" type="checkbox"/> N | <u>Heat # 33083</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> N | |
| CORRECT MFG ON THE MATERIAL | <input checked="" type="checkbox"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="checkbox"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="checkbox"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|---|-------------------------------------|-----------------------------------|--|
| QC 18 INSPECTION FORM | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> DATE: <u>JAN 19 2018</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-05-03
MAD

| | | | | | |
|---|--|---|----|------|----------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1) | | | CP | 09.07.13 |
| A | NEW ISSUE | DS | BY | DATE | |
| DESIGN | DS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | | |
| DRAWN | DS | DRAWING NO. | | | |
| CHECKED | DS | M6061T6B | | | |
| MFG. APPR. | DS | TITLE | | | |
| APPROVED | DS | 6061-T6 BAR | | | |
| DE APPR. | DS | SCALE | | | |
| DATE | 09.07.13 | SHEET 1 OF 1 | | | |
| NTS | | | | | |
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 B0.375x02.000

PO / BATCH NO: 038785/5033402

DATE: JAN 19 2018

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 40'
 QUANTITY INSPECTED: 40'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | | COMMENTS |
|---|-------------------------------------|-------------------------------------|-------------------------|
| SURFACE DAMAGE | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| CORRECT FINISH | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| CORROSION | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| PHOTO REQUIRED | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| CORRECT REF # TO LINK CERT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>Heat # 54P171944</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| CORRECT MPN ON THE MATERIAL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|-----------------------------|--|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> | | SIGNED OFF BY: _____ | |
| DATE: <u>JAN 19 2018</u> | | DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT X WW WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | |
|------------|--|----|----------|
| B | REMOVE QQ-A-250/1 (OPTION REFORMAT NOTES, ADD ASTM B211/B211Z1 (EN 07-1)) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | DS | | |
| CHECKED | DS | | |
| MFG. APPR. | DS | | |
| APPROVED | DS | | |
| DE APPR. | DS | | |
| DATE | 09.07.13 | | |

| | | |
|-----------------------------|-------------|--------------|
| DART AEROSPACE LTD | | REV. B |
| HAWKESBURY, ONTARIO, CANADA | | SHEET 1 OF 1 |
| DRAWING NO. | M6061T6B | SCALE |
| TITLE | 6061-T6 BAR | NTS |

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RELEASED
2009-05-03
JW

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H650-250X6.250

PO / BATCH NO.: 038785/5033401

DATE: JAN 22 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24"
 QUANTITY INSPECTED: 24"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|----------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORROSION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT REF # TO LINK CERT | Y <input checked="" type="radio"/> N <input type="radio"/> | Heat # |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT M# ON THE MATERIAL | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input type="radio"/> N <input checked="" type="radio"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input type="radio"/> N <input checked="" type="radio"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
|--|-------------------------------------|
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JAN 22 2018</u> | SIGNED OFF BY: _____ DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S XXX THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MFP

| | | | |
|------------|--|----|----------|
| B | REFORMAT DWG. ADD B209 SPEC (2N 08-1). | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | DRAWN | | |
| CHECKED | | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 09.07.13 | | |

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA
 DRAWING NO. M6061T6S
 TITLE 6061-T6 SHEET SPEC
 REV. B
 SHEET 1 OF 1
 SCALE NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL 4606H6 B0.250X3.000
 DATE JAN 19 2018

PO / BATCH NO. 0387856033400

MATERIAL CERT REQ'D yes
 QUANTITY RECEIVED 20'
 QUANTITY INSPECTED 20'
 QUANTITY REJECTED 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|---|---------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | <u>Heat # 67915</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--|-------------------------------------|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11 9-89</u> DATE: <u>JAN 19 2018</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:
 QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
 THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-05-03
MD

| | | | |
|--|--|--|--------------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | |
| DRAWN | <i>MD</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>MD</i> | DRAWING NO. | REV. B |
| MFG APPR. | <i>MD</i> | M6061T6B | SHEET 1 OF 1 |
| APPROVED | <i>MD</i> | TITLE | SCALE |
| DE APPR. | <i>MD</i> | 6061-T6 BAR | NTS |
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606146B0.250X01.000

PO / BATCH NO.: 0387856033399

DATE: JAN 19 2018

MATERIAL CERT REQD: yes
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|--------------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N | <u>Astm B221</u> |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | Y <input checked="" type="radio"/> N | <u>Heat # 5XA-160988</u> |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N | |
| CORRECT MPN ON THE MATERIAL | Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--------------------------|-----------|--|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS</u> | <u>11</u> | SIGNED OFF BY: _____ | |
| DATE: <u>JAN 19 2018</u> | | DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B 1.TTT X WW.WWW

THICK WIDTH

WHERE "TTT" = THICKNESS IN INCHES
"WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | | |
|----------|----------|--------------------|----|----------|
| DESIGN | DS | DESCRIPTION | CP | 09.07.13 |
| DRAWN | DS | DART AEROSPACE LTD | BY | DATE |
| CHECKED | DS | DART AEROSPACE LTD | BY | DATE |
| MFG APPR | DS | DART AEROSPACE LTD | BY | DATE |
| APPROVED | DS | DART AEROSPACE LTD | BY | DATE |
| DE APPR | DS | DART AEROSPACE LTD | BY | DATE |
| DATE | 09.07.13 | DART AEROSPACE LTD | BY | DATE |

RELEASED
2009-09-03

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R0.750
 DATE: JAN 19 2018

PO / BATCH NO.: 038785/5033398

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|-------------------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N | Use for dent tooling only. PD |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | Y <input checked="" type="radio"/> N | Heat # 152573 |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N | |
| CORRECT M# ON THE MATERIAL | Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|------------------|-------------|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: | DAS 11 | SIGNED OFF BY: | |
| DATE: | JAN 19 2018 | DATE: | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

| REV. | DESCRIPTION | DATE | BY | APPROVED |
|------|-------------|----------|----|----------|
| A | NEW ISSUE | 17.09.12 | VM | WM |

PURCHASE MATERIAL : AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR
SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT
PART NUMBER: MT-4140QT-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-4140QT-R0.625

| | |
|---|---|
| DART AEROSPACE <small>Hamilton, Ontario, Canada</small> | |
| TITLE: AISI 4140 Q&T ROUND BAR | |
| DWG NO. | REV |
| MT-4140QT-R | A |
| DESIGN BY: VM 8/9/2017 | XXX ± .005 FRACTIONS ± .01 ANGLES ± .5° |
| DRAWN BY: VM 09/14/2017 | 1. UNLESS OTHERWISE SPECIFIED |
| CHECKED: VM 09/14/2017 | 2. INTERPRET DIM AND TOL PER |
| MFG. APPR: DP 09/14/2017 | 3. DIMENSIONAL LIMITS APPLY |
| QA APPR: PD 09/14/2017 | DATE: 9/14/2017 SCALE: NTS WEIGHT: 0.0 LBS SHEET 1 OF 1 |
| APPROVED: VM 09/14/2017 | |
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ECW 11-655

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304R 0.750
 DATE: JAN 19 2018

PO / BATCH NO. 038785/5033397

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 96'
 QUANTITY INSPECTED: 96'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|--------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT FINISH | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>Astm A276</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>Heat # 249P</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT MFG ON THE MATERIAL | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N <input type="radio"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--|-------------------------------------|--|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JAN 19 2018</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)
SPECIFICATION: ASTM A276
PART NUMBER: M304R D.D.D.
DIA.

WHERE "D.D.D." = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
09/07/15

| | | | |
|------------|-------------|-----|----------|
| REV. | DESCRIPTION | BY | DATE |
| A | NEW ISSUE | AJS | 08.03.03 |
| DESIGN | AJS | | |
| DRAWN | | | |
| CHECKED | | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 09.07.15 | | |

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M304R
TITLE 304/316 ROUND BAR
REV. B
SHEET 1 OF 1
SCALE NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1012R 1.250
 DATE: JAN 19 2018

PO / BATCH NO.: 038785/503396

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|------------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y N | <u>Aston A108</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y N | <u>Heat # 41892 AG</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | |
|--|---|
| QC 18 INSPECTION INSPECTED BY: <u>DAS 11</u> DATE: <u>JAN 19 2018</u> | ENGINEERING SIGNOFF (if required) SIGNED OFF BY: _____ DATE: _____ |
|--|---|

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SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR ASTM A108
PART NUMBER: M1018-R/D DDD WHERE D DDD = DIAMETER IN INCHES
D/A.

EG. 7/8" ROUND BAR = M1018-R0 875

TOLERANCES: PER ASTM A108 AS FOLLOWS:

SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

REV. 1
2012-09-24
W

| | | | |
|--|--|----|----------|
| B | REFORMAT. ADD ASTM A108, ADD TOLERANCES. | CP | 12.09.05 |
| A | NEW ISSUE | DS | 01.06.12 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | CP | | |
| CHECKED | A.P. | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 12.09.05 | | |
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | | |
| DRAWING NO. M1018-R | | | |
| TITLE 1018-1025 ROUND BAR | | | |
| REV. B | | | |
| SHEET 1 OF 1 | | | |
| SCALE NTS | | | |
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-0.8750W0.120
 DATE: JAN 19 2018

PO / BATCH NO: 08785/5033395

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 60'
 QUANTITY INSPECTED: 60'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W0.120
 THICKNESS RECEIVED: W0.120
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|-----------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N | <u>Astm A513</u> |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | Y <input checked="" type="radio"/> N | <u>Heat # D651089</u> |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N | |
| CORRECT ME ON THE MATERIAL | Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--------------------------|----------------------|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS</u> | SIGNED OFF BY: _____ | | |
| DATE: <u>11 9-89</u> | DATE: _____ | | |
| DATE: <u>JAN 19 2018</u> | | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

1 2 3 4 5 6 7 8

| REV. | DESCRIPTION | ECN # | DATE | BY | APPROVED |
|------|--------------------------------|--------|----------|----|----------|
| A | NEW RELEASE | 17-555 | 17.09.06 | VM | WM |
| B | TYPE 5 ADDED, TEMPLATE UPDATED | 17-790 | 17.12.13 | VM | ML |

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5
MT-A513-T-[D.DDD]W[T.TTT]

PART NUMBER: WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES
WHERE T.TTT IS WALL THICKNESS IN INCHES
EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120



TITLE
ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)

PART NO. MT-A513-T
REV. B

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ARE AS SHOWN
SURFACES ARE UNLESS OTHERWISE SPECIFIED

INITIALS AND DATE
DESIGNED BY: VM 17/12/13
DRAWN BY: VM 12/13/2017
CHECKED BY: ML 12/20/2017
APPROVED BY: ML 12/20/2017
SCALE: NTS
SHEET 1 OF 1

FRACTIONS ± 1/8
ANGLES ± .5°
ROUGNESS
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-1.000W0.120

PO / BATCH NO. 038785/5033394

DATE: JAN 18 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 100'
 QUANTITY INSPECTED: 100'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.0120
 THICKNESS RECEIVED: W.0120
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|----------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y N | <u>A513</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y N | <u>Heat # 037954</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | | |
|--|-----|-----|-------|-------|---------|
| RECORD RESULTS BELOW | | | | | |
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
|-------------------------------|----------------------|-----------------------------------|--|
| INSPECTED BY: <u>DAS</u> | SIGNED OFF BY: _____ | | |
| DATE: <u>9-89 JAN 18 2018</u> | DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in


| REV. | DESCRIPTION | ECN # | DATE | BY | APPROVED |
|------|--------------------------------|--------|----------|----|----------|
| A | NEW RELEASE | 17-655 | 17.09.06 | VM | WM |
| B | TYPE 5 ADDED, TEMPLATE UPDATED | 17-790 | 17.12.13 | VM | ML |

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5
 PART NUMBER: MT-A513-T-[D.DDD][W.T.TTT]

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES
 WHERE T.TTT IS WALL THICKNESS IN INCHES
 EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

| | |
|--|------------------|
|  DART AEROSPACE | |
| TITLE: ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM) | |
| PART NO.: MT-A513-T | REV: B |
| TOOL NO.: | |
| DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING | |
| DESIGNED BY: VM 17/12/13 | TOUGHNESS: 2 1/8 |
| DRAWN BY: VM 12/13/2017 | SURFACE: 2.0 |
| CHECKED BY: ML 12/20/2017 | ROUGHNESS: X 1.1 |
| MFG REVIEW BY: DP 12/20/2017 | SCALE: NTS |
| APPROVED BY: ML 12/20/2017 | SHEET 1 OF 1 |
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